

Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	10/034,495
				Filing Date	Dec. 28, 2001
				First Named Inventor	Andre L. Mercanzini
				Art Unit	2121 2125
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	50767/P015US/10106749

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code <sup>2</sup> (if known)				
Ar Ar Ar Ar Ar Ar		4,740,410		Muller et al		
		5,645,684		Keller		
		5,660,680		Keller		
		5,914,801		Dhuler et al.		
		5,962,949		Dhuler et al.		
		09/616,500		Matthew D. Ellis et al.		
		09/569,330		Ralph C. Merkle		

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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

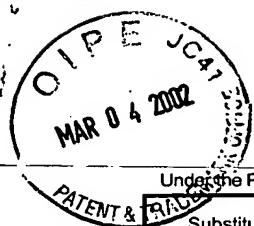
<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Ar		FAN, LI et al., <i>Self-Assembled Microactuated XYZ stages for Optical Scanning and Alignment</i> , 1997 International Conference on Solid-State Sensors and Actuators, Chicago, June 16-19, 1997, pgs 319 - 322	
Ann		AKIYAMA, TERUNOBU et al., <i>Scratch Drive Actuator with Mechanical Links for Self-Assembly of Three-Dimensional MEMS</i> , Journal of Microelectromechanical Systems, Vol. 6, No. 1, March 1997, pgs 10-17	
Ar		LINDERMAN, RYAN J. et al., <i>Optimized Scratch Drive Actuator for Tethered Nanometer Positioning of Chip-Sized Components</i> , Solid-State Sensor and Actuator Workshop, NSF Center for Advanced Manufacturing and Packaging of Microwave, Optical, and Digital Electronics, University of Colorado at Boulder, CO	
Orp		EBEFORS, THORBJORN, thesis entitled <i>Polyimide V-Groove Joints for Three-Dimensional Silicon Transducers - exemplified through 30D turbulent gas flow sensor and micro-robotic devices</i> , Chapter 3, page 24. figures a) and b).	

Examiner Signature	<i>Arnd W. Padua</i>	Date Considered	11-9-01
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002.OMB 0651-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

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Filing Date	December 28, 2001
First Named Inventor	Andre Mercanzini
Art Unit	2124 2125
Examiner Name	Not Yet Assigned
Attorney Docket Number	50767/P015US/10106749

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Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Aun		6,137,206	10-24/2000	Hill	


**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Aun		REID, J. ROBERT et al., "Automated Assembly of Flip-Up Micromirrors," <i>Transducers '97</i> , 1997, 347-350 Int'l Conf. on Solid-State Sensors and Actuators, Chicago, June 16-19	
Aun		LUNTZ, JONATHAN E. et al., "Closed-Loop Operation of Actuator Arrays," <i>IEEE 2000, Int'l Conf. Robotics and Automation</i> , San Francisco, April 3666-3672	
Aun		SUH, JOHN W. et al., "Organic thermal and electrostatic ciliary microactuator array for object manipulation," <i>Sensors and Actuators A</i> 58 1977 51-60	
Aun		BOHRINGER, KARL-FRIEDRICH et al., "Vector Fields for Task-level Distributed Manipulation: Experiments with Organic Micro Actuator Arrays," <i>IEEE 1997 1779-1786 Int'l Conf. Robotics and Automation</i> , Albuquerque	
Aun		BOHRINGER, KARL-FRIEDRICH et al., "Single-Crystal Silicon Actuator Arrays for Micro Manipulation Tasks," <i>IEEE 1996</i>	
		WILL, PETER, "MEMS and Robotics: Promises and Problems," <i>IEEE 2000 Int'l Conf. Robotics and Automation</i> , San Francisco, April 938-946	
Aun		LIU, WENHENG et al., "Parts Manipulation on an Intelligent Motion Surface," <i>IEEE 1995</i>	

Examiner Signature		ALBERT W. PALADINI PATENT EXAMINER	Date Considered	11-9-04
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